

10/100 Ethernet CF Card™

*CompactFlash and PC Card solutions for
Pocket PCs. Handheld PCs, and pen tablets
running:*

- Windows Mobile 5.0
- Windows Mobile 2003/2003SE
- Windows CE 2.11 or 3.0

User's Guide



socket™
Increasing Mobile
Productivity

Copyright Notice

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Feel free to contact Socket Communications at:

Socket Communications, Inc.
37400 Central Court
Newark, CA 94560

Other than the above, Socket Communications can assume no responsibility for anything resulting from the application of information contained in this manual.

Socket Communications requests that you refrain from any applications of the Socket 10/100 Ethernet CF Card that are not described in this manual. Socket Communications also requests that you refrain from disassembling the CompactFlash Card. Disassembly of this device will void the product warranty.

You can track new product releases, software updates and technical bulletins by visiting Socket's website at www.socketcom.com.

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1 | Introduction

Would you like to ActiveSync your mobile computer in the fastest and most convenient way possible?* Do you need to back up or restore files in a flash? Then you need Socket's 10/100 Ethernet CF Card. It's the best solution for accessing hi-speed networks running up to 100 Mbps.



The sleek design integrates a Type I CompactFlash card and network connector into one durable unit. It is among the lowest in its class in power consumption.

About the Software



Socket's enhanced drivers for Windows Mobile help you save time and effort with special auto-launch and network monitoring features. You can set your mobile computer to automatically launch ActiveSync or any other program whenever you insert the card, minimizing the time and effort to connect. You also have instant access to key network settings.

Software updates: www.socketcom.com/product/ethernet_10100.asp

System Requirements

Your mobile computer should meet these minimum requirements:

- Any of the following operating systems:
 - Windows Mobile 5.0
 - Windows Mobile 2003/2003SE
 - Windows CE v2.11 or later
- Available CompactFlash or PC Card slot that supports CF+ I/O. (CompactFlash-to-PC Card adapter required if using a PC Card slot.)
- During installation, you will need a desktop or laptop computer that meets these minimum requirements:
 - Windows 98SE, Me, 2000 or XP
 - Microsoft ActiveSync
(Windows Mobile 5.0 devices require ActiveSync 4.0 or greater.)

* ActiveSync 4.0 does not support synchronization over Ethernet. Because Windows Mobile 5.0 devices require ActiveSync 4.0, these devices cannot synchronize over Ethernet. Devices running a previous version of Windows Mobile can synchronize over Ethernet using a previous version of ActiveSync.



TIP

For some HPC Pros, the CompactFlash slot only supports memory I/O and is not compatible with the 10/100 Ethernet CF Card; only the PC Card slot supports CF+ I/O. If you have one of these computers, use a CF-to-PC Card adapter to insert the card into the PC Card slot.



WARNING!

If you are NOT using Windows Mobile 5.0, DO NOT install ActiveSync 4.0, or you will not be able to synchronize your mobile computer and host PC over an Ethernet connection!

Microsoft removed this feature from ActiveSync 4.0. If your Windows version does not require ActiveSync 4.0, then Socket recommends that you use an older version of ActiveSync that supports device synchronization over Ethernet.

Package Contents

The 10/100 Ethernet CF Card package includes these items:

- A Socket 10/100 Ethernet CF Card (CompactFlash Type I)
- The *10/100 Ethernet Installation Disc*
- Booklet containing copyright and warranty information



TIP

CompactFlash-to-PC Card adapters are available separately online from Socket at: www.socketcom.com/shop/

Product Registration

Socket highly recommends that all customers register their Socket products. Registered users receive priority for technical support, product updates, and special offers. Register your card online at www.socketcom.com/prodreg.

Product Registration / Technical Support

I am a new user Please select your Country or Region. Country/Region Select a Country <input type="button" value="▼"/>	I am a returning user Welcome back. Please sign in. Email Address <input type="text"/> Password <input type="password"/> <input type="button" value="Sign-in >"/> » Forget Password?
<i>Product registration is not required to ensure your warranty rights.</i>	
► Please contact webmaster@socketcom.com if you need help.	

2 | Setup

This chapter explains how to set up and use the 10/100 Ethernet CF Card on a Pocket PCs, Handheld PCs, and pen tablets running:

- Windows Mobile 5.0
- Windows Mobile 2003/2003SE
- Windows CE 2.11 or 3.0

Setup Summary

STEP 1: Prepare network information.

STEP 2: Install the software.

STEP 3: Enter network settings.

STEP 4: Insert card and connect to LAN port.

OPTIONAL: Use ActiveSync over a Network

OPTIONAL: Use the Control Panel Applet



STEP 1: Prepare Network Information

Contact your network administrator for the network settings. A text-only form that you can email to your network administrator is available in the *Docs* folder in the installation CD and online at:

www.socketcom.com/support/support_ethernet.asp

Does the network support DHCP (Dynamic Host Configuration Protocol)?

YES. If *Yes*, then what is the valid range of IP addresses for your network?

NO. If *No*, then please any of the following IP addresses required by your network (you may need only some):

(a) Mobile Computer IP address: _____ . _____ . _____ . _____

(b) Subnet Mask: _____ . _____ . _____ . _____

(c) Default Gateway: _____ . _____ . _____ . _____

(d) Primary DNS: _____ . _____ . _____ . _____

(e) Secondary DNS: _____ . _____ . _____ . _____

(f) Primary WINS: _____ . _____ . _____ . _____

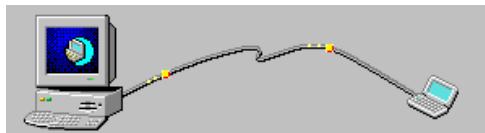
(g) Secondary WINS: _____ . _____ . _____ . _____

Remote ActiveSync only: If your server does NOT have WINS services enabled, use the IP address of your host PC instead of a Primary WINS address.

STEP 2: Install the Software

Follow these steps for software installation BEFORE inserting the 10/100 Ethernet CF Card:

1. Use a serial/Ethernet/USB cable or cradle to connect your mobile computer to a host PC.



2. In order to synchronize data, there must be a partnership (not a guest connection) between the mobile computer and host PC.
 - If you already established a partnership between the two computers, they should automatically connect and begin synchronizing.
 - If no partnership exists between the two computers, a screen will appear asking if you would like to set one up. Select Yes and click **Next>**. Follow the remaining screens on your host PC until the partnership has successfully been established.



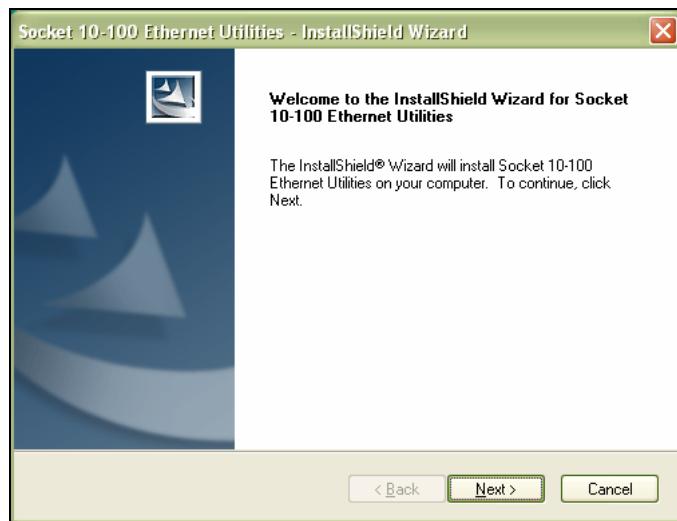
IMPORTANT! You must set up a partnership (not a guest connection), or you will not be able to synchronize data between your mobile computer and host PC!

3. Insert the *Socket 10/100 Ethernet Installation Disc* into the host PC.

4. Use My Computer or Windows Explorer to access the CD drive. In the CD, click on SETUP.EXE.



5. The installation wizard should begin. Follow the instructions on your host PC and mobile computer until installation is complete.



6. After completing the installation, disconnect the mobile computer from the cable/cradle. Soft reset the mobile computer by pushing the reset button.



IMPORTANT! Soft reset your mobile computer after software installation!

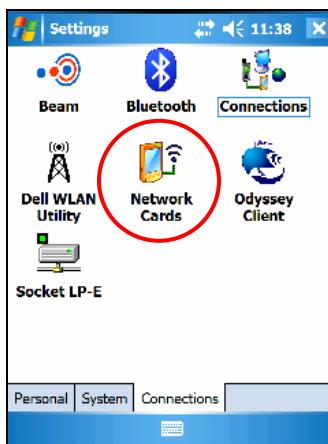
STEP 3: Enter Network Settings

Windows Mobile 2003/2003SE and Windows Mobile 5.0

1. Open the Configure Network Adapters screen:

Windows Mobile 5.0:

Tap Start | Settings | Connections tab | Network Cards.

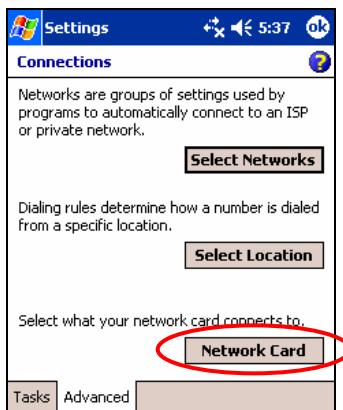


Windows Mobile 2003/2003SE:

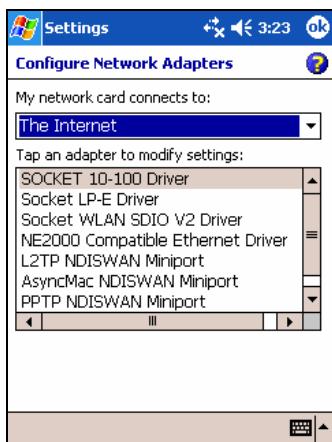
Tap Start | Settings | Connections | Connections.

Tap on the Advanced tab.

Tap on the Network Card button at the bottom of the screen.

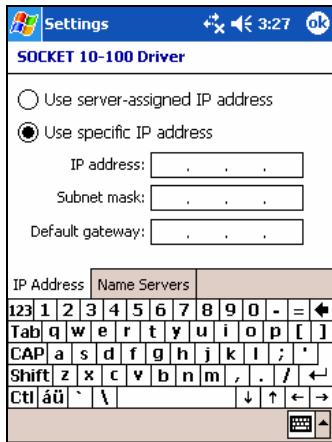


2. The **Configure Network Adapters** screen will appear. In the drop-down menu at the top of the screen, select the appropriate option.
 - **The Internet:** For connecting from home and/or via an ISP
 - **Work:** For connecting to a private network, such as at work, or a proxy network.

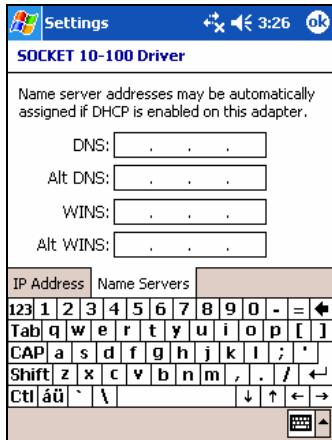


Note: If you are connecting to a proxy or secure network, refer to your Pocket PC documentation for configuration information.

3. If you DO NOT need to enter any IP addresses, (i.e., your network uses DHCP), tap **ok**. You are now ready to proceed to STEP 4 to insert the card and connect to a network.
4. If you DO need to enter any IP addresses, tap **Socket 10-100 Driver**.
5. In the next screens, enter your network settings from the Network Information Form. Select **Use specific IP address** to enter any necessary IP addresses.



If needed, tap on the Name Servers tab to enter DNS and WINS addresses.



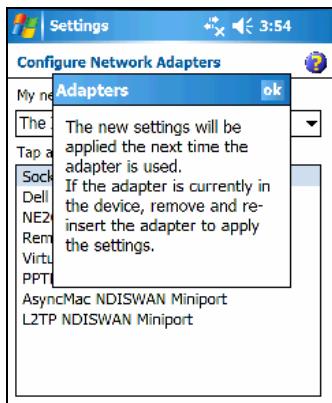
Note: If using a static IP address, you may need to enter the host computer's IP address in the WINS field to use ActiveSync.

- When you have finished entering settings, tap **ok**.



IMPORTANT!
If you forget to tap ok, your settings will not take effect!

- A screen will report that the new settings will take effect when you next insert the network card. Tap **ok**.



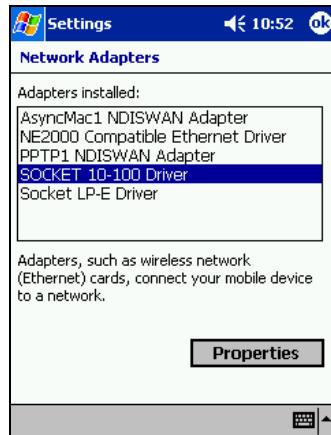
- Soft reset your Pocket PC by pressing the reset button.



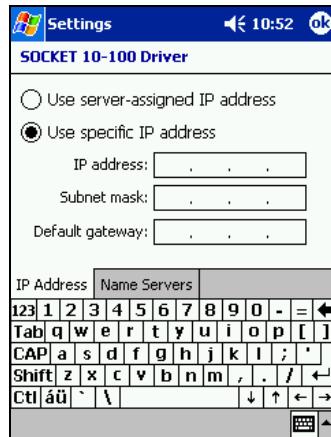
Do not soft reset a Pocket PC 2003 when a Socket card is inserted, or errors may occur in application(s) using the card. If errors occur, remove the card and soft reset the device. Wait for the device reset to finish before you re-insert the card.

Pocket PC 2000/2002

1. Pocket PC 2000: Go to Start | Settings | Connections | Network.
Pocket PC 2002: Go to Start | Settings | Connections | Network Adapters.
2. In the Network Connections screen, select Socket 10-100 Driver. On a Pocket PC 2002, tap on the Properties button.

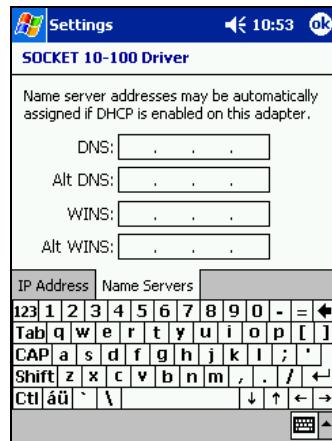


3. In the next screens, enter your network settings.



- For DHCP, select Use server-assigned IP address. Otherwise select Use specific IP address and enter the necessary information.

- If needed, tap on the Name Servers tab to enter DNS and WINS addresses. If using a static IP address, you may need to enter the host computer's IP address in the WINS field to use ActiveSync.



- When done, tap **ok**.

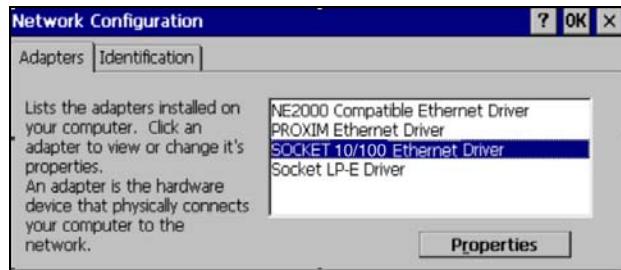


IMPORTANT! If you forget to tap ok, your settings will not take effect!

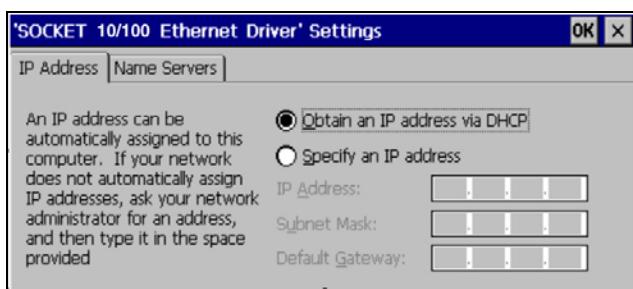
4. Soft reset your Pocket PC by pressing the reset button.

Handheld PC Pros, Handheld PC 2000s and Pen Tablets

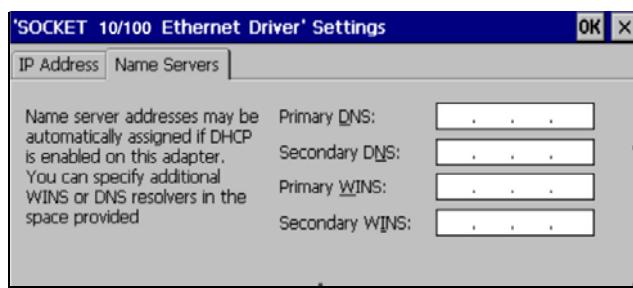
1. Go to Start | Settings | Control Panel | Network.
2. In the next screen, select Socket 10-100 Ethernet Driver. Tap Properties.



3. The IP Address screen will appear. Following your completed Network Information Form, enter the appropriate settings for your network.



4. If needed, click on the Name Servers tab to enter any necessary DNS or WINS addresses.



Note: If using a static IP address, you may need to enter the host computer's IP address in the Primary WINS field to use ActiveSync.

5. When done entering all your network settings, tap OK.



IMPORTANT! Your new settings will not take effect if you forget to tap OK!

STEP 4: Insert Card and Connect to LAN

1. If you have not done so already, soft reset your mobile computer.



Do not soft reset a Pocket PC 2003 when a Socket card is inserted. Wait for the device reset to finish before you insert the card.

2. Insert the 10/100 Ethernet CF Card into your mobile computer. Make sure the card is right-side up.

Use a PC Card adapter to insert the card into a PC Card slot.

3. Plug a cable from your LAN into the connector at the top of the card.

4. LEDs on the card should turn on and/or blink, depending on the connection status.

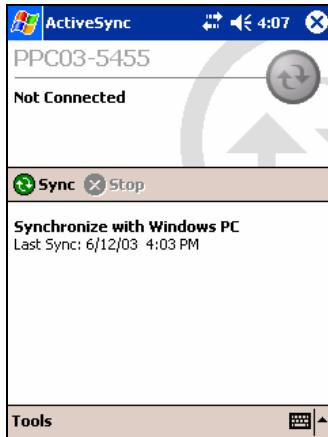


Status Indicator LEDs

LED	LED Activity	Meaning
	Solid Green	Good Link
100	Solid Orange	100 Mbps mode
	Blinking Green	Activity
	Solid Orange	Collision

5. If you would like to check if you have a good connection, do the following:

(a) When ActiveSync automatically launches, close the program. Tap the  button in the upper right corner.



(b) Check to see if the Link Status LED  has a steady green light to denote a good connection. If the Activity Status LED  is blinking, your device is communicating with your network.

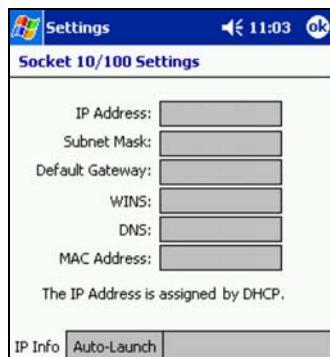
(c) Verify that the connection has a valid IP address for your network.

- Open the Socket 10/100 applet.

Pocket PC: Tap Start | Settings | Connections | Socket 10/100
HPC: Tap Start | Settings | Control Panel | Socket 10/100



- In the IP Info screen, check the IP Address field.



- If your network uses a static IP address, make sure it appears correctly.

- If your network uses DHCP, make sure the IP address is within the valid range for your network.

(d) Test your web access. Start Pocket Internet Explorer. Enter a URL and test to see if it appears correctly. If you cannot enter a URL because the address bar does not appear, tap **View | Address Bar**.



TIP

*Windows Mobile 2003: When turning your device **ON** or **OFF** (resume/suspend) with the 10/100 Ethernet card in the CF slot, wait a minimum of three (3) seconds before cycling the power state (OFF/ON). Changing the power state more quickly than this may result in a failed network connection. If a connection is not established, remove and reinsert the card.*

OPTIONAL: Use ActiveSync over a Network

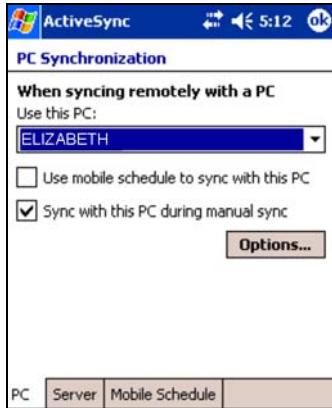
IMPORTANT! ActiveSync 4.0 does not allow synchronization over Ethernet. Make sure you are using a previous version of ActiveSync. Windows Mobile 5.0 devices, which require ActiveSync 4.0, cannot perform this procedure.

Pocket PC 2003/2003SE

1. Tap Start | ActiveSync.



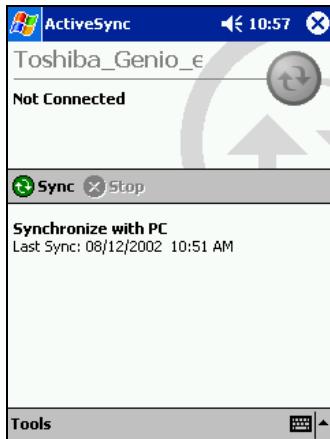
2. Tap Tools | Options.
3. In the next screen, check Sync with this PC during manual sync. Tap ok.



4. In the main ActiveSync screen, tap Sync. The Pocket PC will begin to synchronize data with your host PC.
5. To stop ActiveSync, tap Stop. You will still have network access, but you will not be able to synchronize data between your Pocket PC and host PC.

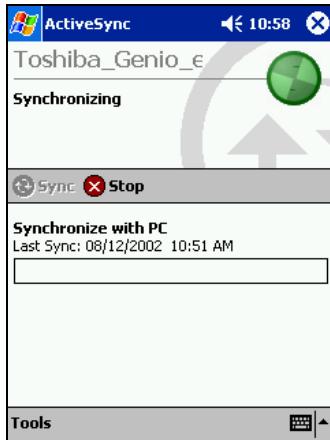
Pocket PC 2002

1. Tap Start | ActiveSync.



Note: In order to use ActiveSync, you must have previously created a partnership (not a guest connection) between the device and host PC!

2. Tap on Sync. The Pocket PC will begin to synchronize data with your host PC.

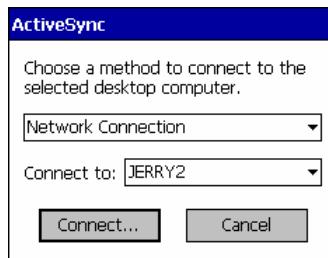


If ActiveSync starts and stops, go to Tools | Options | Mobile Schedule and uncheck the Sync outgoing items as they are sent box.

3. To stop ActiveSync, tap on Stop. You will still have network access, but you will not be able to synchronize data between your mobile computer and host PC.

Pocket PC 2000 or Handheld PC

1. Pocket PC 2000: Tap Start | Programs | Connections | ActiveSync.
HPC: Tap Start | Programs | Communication | ActiveSync



Important!

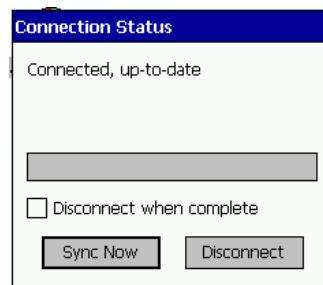
You must have a partnership with a host PC to use ActiveSync!

2. Select Network Connection in the top drop-down list. Choose the desktop computer you want to connect to in the bottom drop-down list, then tap Connect.



If Network Connection does not appear in the drop-down list, ActiveSync launched before your device had enough time to recognize the card. You must increase how long your device waits before auto-launching ActiveSync. For instructions, please refer to the section on using the control panel applet at the end of this chapter.

3. The mobile computer will start synchronizing. The Connection Status screen will report when synchronization is done.



4. To stop ActiveSync, tap on the Disconnect button. You will still have network access, but you will not be able to synchronize data.

OPTIONAL: Use the Control Panel Applet

The control panel applet lets you control several unique features of Socket's enhanced Ethernet software, including:

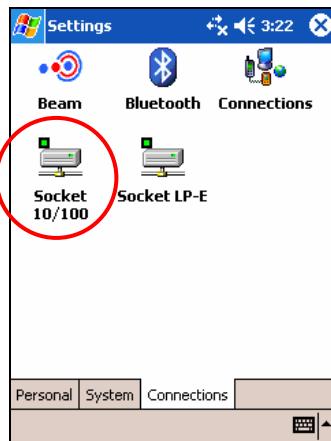
- Configuring the auto-launch program
- Viewing the IP info for your connection

Start the Applet

Launch the control panel applet by doing the following:

Pocket PCs: Tap Start | Settings | Connections | Socket 10/100.

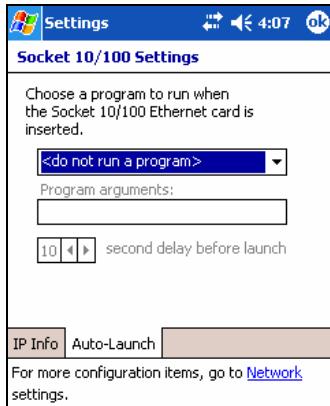
Handheld PCs: Tap Start | Settings | Control Panel | Socket 10/100.



Note: If the Socket 10/100 icon does not appear, soft reset your mobile computer by pressing the reset button.

Configure Auto-Launch

1. Tap on the Auto-Launch tab to specify what program to auto-launch whenever you insert the 10/100 Ethernet CF Card. Use the drop list to select a program to auto-launch, if desired.



2. You can use the **Program arguments** field for custom applications that require program arguments to launch.
3. The **second delay before launch** field lets you choose how long your mobile computer will wait before auto-launching a program. Most devices have a default of 10 seconds. Unless your network is slow, or if memory is low, 10 seconds should be long enough to recognize the 10/100 Ethernet CF Card.

View IP Info

Tap on the IP Info tab at the bottom of the screen to view your network's IP addresses. You can also see if your address is static or assigned by DHCP.



*You can only use the IP Info screen to view network information.
You cannot modify any of the settings.*

TIP

Appendix A Specifications

Physical Characteristics:

CompactFlash Card:

Dimensions:

3.44 x 1.69 x 0.13 in (88 x 42.8 x 3.3 mm)

Mass:

30 g

Power Consumption (supplied by PC host):

Typical at 100 Mbps: 140 mA

Typical at 10 Mbps: 80 mA

Interface Standards:

CompactFlash Interface:

CompactFlash I/O, Type I

With PC Card Adapter*:

PCMCIA, Type II

**Note: Available separately at
www.socketcom.com/shop/*

Operating System Support:

Windows Mobile 5.0

Windows Mobile 2003/2003SE

Windows CE 3.0

Windows CE 2.11

Media Coupler Support:

UTP (RJ45)

Certification/Compliance:

VCCI:

Class B

FCC:

Part 15, Class B

CE:

EN55024:1998

C-Tick:

s.182 - Radio Communications

Act 1992

CompactFlash:

CompactFlash Spec. 2.0

Warranty:

Three years

Appendix B Troubleshooting

SYMPTOM: *Network Connection* is not listed as an option in ActiveSync.

POSSIBLE REASONS	SOLUTION
Your device is using DHCP, but it cannot access any IP addresses. This may be because your device has problems communicating with your network's DHCP server, or because your DHCP server is not available.	Try removing the 10/100 Ethernet CF Card and reinserting it. If ActiveSync still shows no network connection, wait for a few minutes. If you see the message "Unable to contact DHCP server, using cached information," the 10/100 Ethernet CF Card is probably working properly. If after a few minutes, the problem persists, ask your network administrator to verify that the DHCP server is working properly.
Your auto-launch program starts too fast, and your device does not have enough time to connect to your network.	Increase the second delay before launch setting in the Auto-Launch tab of the 10/100 Ethernet CF Card Applet. If you have to set the delay to longer than 20 seconds, you should consult your network administrator.
Your server does not have WINS services enabled.	Enter the IP address of the host computer in the Primary WINS: field in order to use ActiveSync.

SYMPTOM: My new IP addresses do not work.

POSSIBLE REASON	SOLUTION
After entering the IP addresses for your 10/100 Ethernet CF Card, you forgot to tap/click OK .	Re-enter the IP addresses. When done, tap/click OK .

SYMPTOM: A message reports, *DHCP Lease Has Expired*.

POSSIBLE REASON	SOLUTION
You are using DHCP and have not used your 10/100 Ethernet CF Card for a while.	Tap OK and continue.

SYMPTOM: My DHCP server keeps reporting that it is busy, and I cannot connect to my LAN.

POSSIBLE REASON	SOLUTION
Your network DHCP Server ran out of IP addresses.	Inform your network administrator.

SYMPTOM: A message reports, *Error Starting Program, Required .dll File Not Found.*

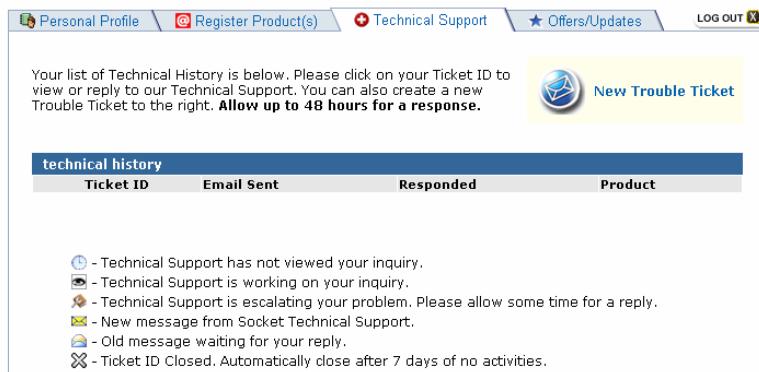
POSSIBLE REASONS	SOLUTION
You tried to install the software without first establishing a Partnership or Guest relationship between your device and your host PC.	Make an active partnership between your device and a host PC through the serial/USB connection cable/cradle. Retry installing the software.

Appendix C Technical Support

If you have trouble installing or using the 10/100 Ethernet CF Card, contact Socket's technical support department for assistance.

IMPORTANT! To obtain technical support, you must first register your product online at www.socketcom.com/prodreg.

After you register your product and log in, click on the Technical Support tab, then click New Trouble Ticket to submit an online request for technical support. Afterwards, you can log in anytime to monitor the status of your request. If we cannot resolve your inquiry online, we can arrange for a support engineer to call you at a specific time.



Please refrain from disassembling the CompactFlash Card. Disassembly of this device will void the product warranty.

Limited Warranty

Socket Communications Incorporated (Socket) warrants this product against defects in material and workmanship, under normal use and service, for the following periods from the date of purchase:

Plug-in Card: Three years

Incompatibility is not a defect covered by Socket's warranty. During the warranty period, Socket will, at its option, repair or replace the defective product at no charge when furnished with proof of retail purchase, provided that you deliver the product to Socket or to an authorized Socket Service Center.

The returned product must be accompanied by a return material authorization (RMA) number issued by Socket or by Socket's Authorized Service Center. If you ship the product, you must use the original container or equivalent and you must pay the shipping charges to Socket. Socket will pay shipping charges back to any location in the contiguous United States. This warranty applies only to the original retail purchaser and is not transferable.

Socket may, at its option, replace or repair the product with new or reconditioned parts and the returned product becomes Socket's property. Socket warrants the repaired or replaced products to be free from defects in material or workmanship for ninety (90) days after the return shipping date, or for the duration of the original warranty period, whichever is greater.

This warranty does not cover the replacement of products damaged by abuse, accident, misuse or misapplication, nor as a result of service or modification other than by Socket.

SOCKET IS NOT RESPONSIBLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM BREACH OF ANY EXPRESS OR IMPLIED WARRANTY, INCLUDING DAMAGE TO PROPERTY AND, TO THE EXTENT PERMITTED BY LAW, DAMAGES FOR PERSONAL INJURY. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES INCLUDING IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

Some states do not allow limitation of implied warranties, or the exclusion or limitation of incidental or consequential damages, so that the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

This product may contain fully tested, recycled parts, warranted as if new.

For warranty information, please call (510) 744-2700.

Limited Software Warranty

LIMITED WARRANTY. SOCKET warrants that the original disk or CD ROM is free from defects for 90 days from the date of delivery of the SOFTWARE.

CUSTOMER REMEDIES. SOCKET'S entire liability and your exclusive remedy shall be, at SOCKET'S option, either (a) return of the price paid or (b) replacement of the SOFTWARE which does not meet SOCKET'S Limited Warranty and which is returned to SOCKET with a copy of your receipt. Any replacement SOFTWARE will be warranted for the remainder of the original warranty period or 30 days, whichever is longer. THESE REMEDIES ARE NOT AVAILABLE OUTSIDE OF THE UNITED STATES OF AMERICA.

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Regulatory Compliance

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. This equipment is also CE EN55024:1998 and C-TICK compliant. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his or her own expense.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user may try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna of the radio or television.
- Increase the distance separating the equipment and the receiver.
- Connect the equipment to an outlet on a different branch circuit than that of the receiver.
- Consult the dealer or an experienced radio/TV technician for help.

The user may find the following booklet helpful:

How to Identify and Resolve Radio-TV Interference Problems

This booklet is available from the U.S. Government Printing Office, Washington, D.C. 20402.

Product Disposal

Your device should not be placed in municipal waste. Please check local regulations for disposal of electronic products.



